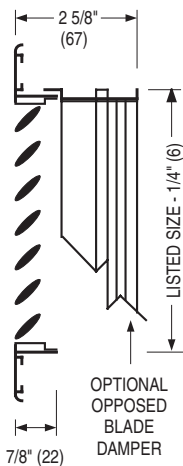
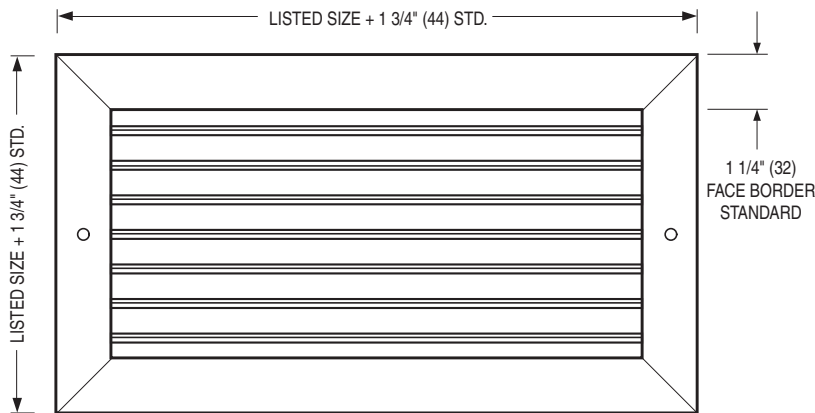
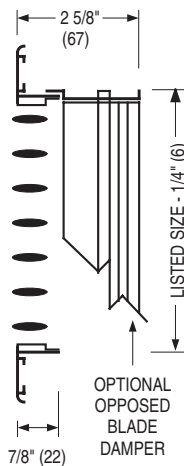




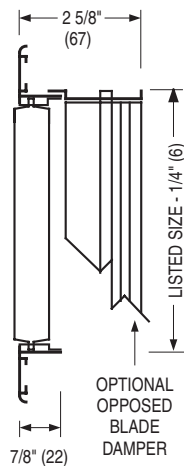
**ALUMINUM AIRFOIL BLADE  
RETURN GRILLES & REGISTERS**  
FIXED BLADES  
**MODELS: 7145H(-O), 7145V(-O), 71FH(-O)  
AND 71FV(-O)**



**MODEL 7145H**



**MODEL 71FH**



**MODEL 71FV**

- Frame/Border Type S:**  
Surface Mount
- Model 7145H**  
Single Deflection Grille  
Fixed 45° Horizontal Blades
- Model 7145H-O**  
Single Deflection Register  
Fixed 45° Horizontal Blades  
(Includes O. B. Damper)
- Model 7145V**  
Single Deflection Grille  
Fixed 45° Vertical Blades
- Model 7145V-O**  
Single Deflection Register  
Fixed 45° Vertical Blades  
(Includes O. B. Damper)
- Model 71FH**  
Single Deflection Grille  
Fixed 0° Horizontal Blades
- Model 71FH-O**  
Single Deflection Register  
Fixed 0° Horizontal Blades  
(Includes O. B. Damper)
- Model 71FV**  
Single Deflection Grille  
Fixed 0° Vertical Blades
- Model 71FV-O**  
Single Deflection Register  
Fixed 0° Vertical Blades  
(Includes O. B. Damper)

**DESCRIPTION:**

1. Construction: Extruded aluminum. Rigid heavy-gauge frame mechanically interlocked with reinforced mitered corners. Streamlined airfoil shaped solid blades on 3/4" (19) centers are fixed at 0 or 45 degrees to match and compliment the supply grilles and registers. Smooth blade design minimizes pressure drop and dirt accumulation. 45 degree models installed in a low or high sidewall location are vision proof, when installed with the blade deflection facing away from the line of site.
2. Optional roll-formed steel opposed blade damper has a screwdriver slot operator accessible through face of register.
3. Minimum size is 4" x 4" (102 x 102).  
Maximum size one piece construction is 48" x 48" (1219 x 1219).
4. Type S Surface mount standard frame has 1" (25) overlap margin. Available in multiple sections with mullions - see submittal OG-1-A.
5. Standard fastening is Type A countersunk screw holes.
6. Standard finish is AW Appliance White.

**OPTIONS:**

1. Finish:
  - SA Satin (clear) anodized
  - SP Special \_\_\_\_\_ .
2. Fastening:
  - Type C Concealed mounting straps
  - Type N None.
3.  OA Aluminum Opposed Blade Damper
4.  Type NF Narrow frame with 1" (25) face border and a 3/4" (19) overlap margin. O.A. flange to flange dim. = listed size + 1 1/4" (32).
5.  PF Plaster sub-frame
6.  IS Insect screen

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 1 of 3 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
9-1-20	7100	2-1-11	7100-3

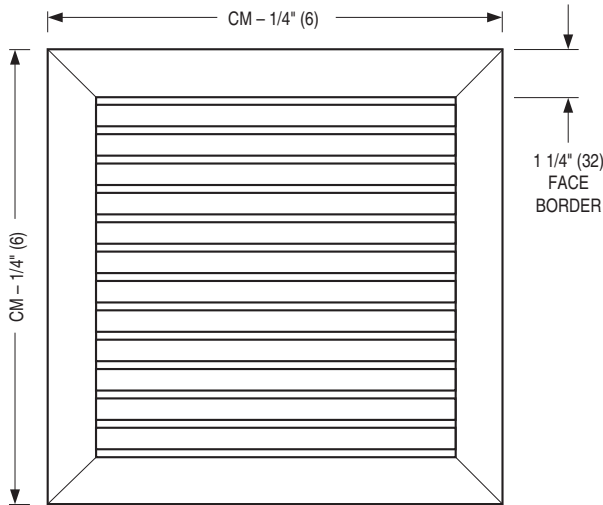


**ALUMINUM AIRFOIL BLADE  
RETURN GRILLES & REGISTERS  
FIXED BLADES  
MODELS: 7145H(-O), 7145V(-O), 71FH(-O)  
AND 71FV(-O)**

**Full Face / Ceiling Modules**

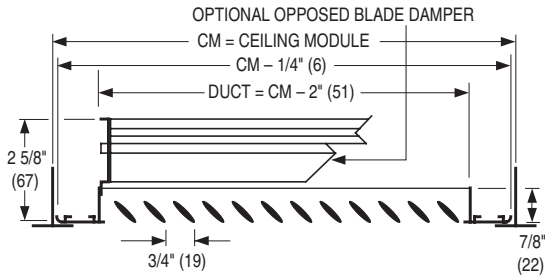
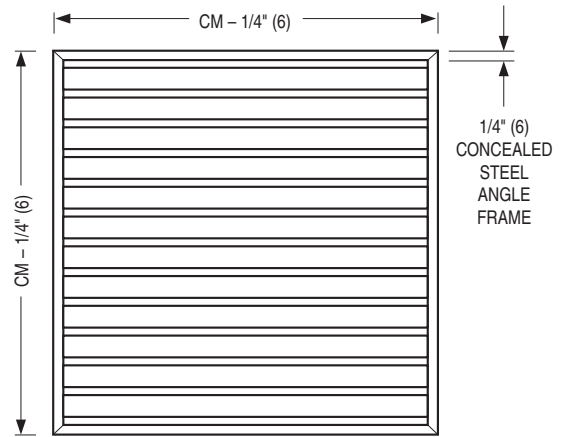
**Frame/Border Type L:**

Lay-in T-Bar Mount

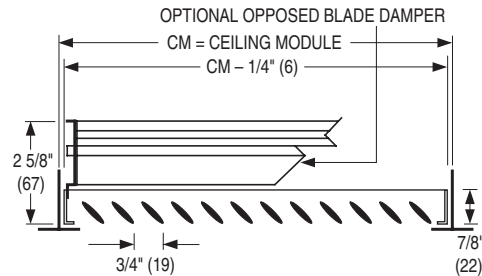


**Frame/Border Type A:**

**Concealed Angle Frame Lay-in T-Bar**  
(non-ducted applications)



**Model 7145H shown**  
Horizontal Blades (side view)



**Model 7145H shown**  
Horizontal Blades (side view)

**DESCRIPTION:**

1. Ordered by ceiling module size.
2. Type L frame use standard 1 1/4" (32) face frame/border and shows a partial reveal when installed in standard 15/16" (24) T-Bar. Duct size is 2" (51) smaller than ceiling module size.
3. Type A frame is a steel 1/4" (6) angle frame and is concealed when installed in T-Bar.

**Available Border Type L and A  
Ceiling Module Sizes**

Imperial Modules		Metric Modules
Imperial Units (in.)	Metric Units (mm)	S.I. Units (mm)
12 x 12	305 x 305	300 x 300
24 x 12	610 x 305	600 x 300
36 x 12	914 x 305	900 x 300
48 x 12	1219 x 305	1200 x 300
20 x 20	508 x 508	500 x 500
24 x 24	610 x 610	600 x 600
36 x 24	914 x 610	900 x 600
48 x 24	1219 x 610	1200 x 600

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 2 of 3 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
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**ALUMINUM AIRFOIL BLADE  
RETURN GRILLES & REGISTERS  
FIXED BLADES  
MODELS: 7145H(-O), 7145V(-O), 71FH(-O)  
AND 71FV(-O)**

**Panel Mounted/Ceiling Modules**

**Border Type PLS: Steel Lay-in Panel**

**Border Type PLA: Aluminum Lay-in Panel**

The grille or register is mounted in an extended panel to suit standard T-Bar Lay-in type ceilings.

**Border Type FPS: Steel Finline® Panel**

**Border Type FPA: Aluminum Finline® Panel**

The grille or register is mounted in an extended panel that will fit a 9/16" (14) narrow regressed (bolt slot) T-Bar ceiling grid or 9/16" (14) Flat T-Bar with tegular ceiling tile.

**Border Type SPS: Steel Spline Panel**

**Border Type SPA: Aluminum Spline Panel**

The grille or register is mounted in an extended panel to suit spline type ceiling modules. CM 24" x 24" (600 x 600) only.

**Border Type MPS: Steel Metal Pan Panel**

**Border Type MPA: Aluminum Metal Pan Panel**

The grille or register is mounted in an extended panel to suit metal pan ceilings that have snap-in type ceiling modules. CM 24" x 24" (600 x 600) only.

**Border Type TPS: Steel Tegular Panel**

**Border Type TPA: Aluminum Tegular Panel**

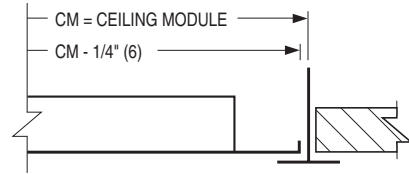
The grille or register is mounted in a panel that will extend below a 15/16" (24) Flat T-Bar ceiling grid.

**Available Border Type PL, FP and TP Ceiling Module Sizes**

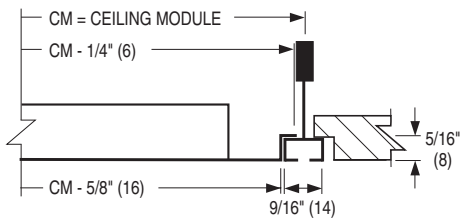
Ceiling Module	
Imperial Units (in.)	Metric Units (mm)
12 x 12	300 x 300
24 x 12	600 x 300
36 x 12	900 x 300
48 x 12	1200 x 300
20 x 20	500 x 500
24 x 24	600 x 600
36 x 24	900 x 600
48 x 24	1200 x 600

Maximum grille neck size is CM Ceiling Module – 3" (76).

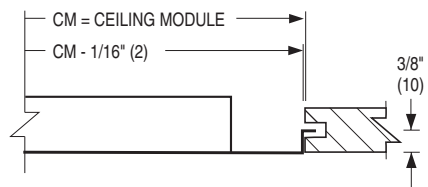
**Type PL (S or A) Lay-in Panel**



**Type FP (S or A) Finline® Panel**

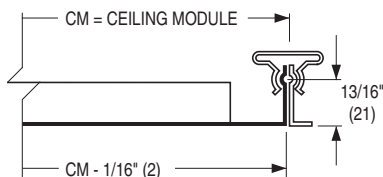


**Type SP (S or A) Spline Panel**

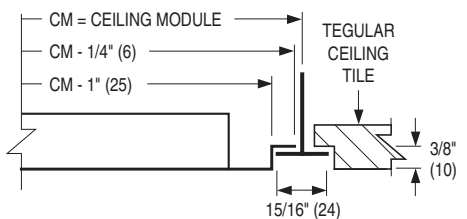


Note: Splines on two opposite sides.

**Type MP (S or A) Metal Pan Panel**



**Type TP (S or A) Tegular Panel**



**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 3 of 3 Dimensions are in inches (mm).

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

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7100

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